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| | | | |
|------|----|--------|---|
| NEWS | 1 | | Web Page for STN Seminar Schedule - N. America |
| NEWS | 2 | JAN 02 | STN pricing information for 2008 now available |
| NEWS | 3 | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances |
| NEWS | 4 | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats |
| NEWS | 5 | JAN 28 | MARPAT searching enhanced |
| NEWS | 6 | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication |
| NEWS | 7 | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment |
| NEWS | 8 | JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements |
| NEWS | 9 | FEB 08 | STN Express, Version 8.3, now available |
| NEWS | 10 | FEB 20 | PCI now available as a replacement to DPCI |
| NEWS | 11 | FEB 25 | IFIREF reloaded with enhancements |
| NEWS | 12 | FEB 25 | IMSPRODUCT reloaded with enhancements |
| NEWS | 13 | FEB 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |
| NEWS | 14 | MAR 31 | IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats |
| NEWS | 15 | MAR 31 | CAS REGISTRY enhanced with additional experimental spectra |
| NEWS | 16 | MAR 31 | CA/CAplus and CASREACT patent number format for U.S. applications updated |
| NEWS | 17 | MAR 31 | LPCI now available as a replacement to LDPCI |
| NEWS | 18 | MAR 31 | EMBASE, EMBAL, and LEMBASE reloaded with enhancements |
| NEWS | 19 | APR 04 | STN AnaVist, Version 1, to be discontinued |
| NEWS | 20 | APR 15 | WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats |
| NEWS | 21 | APR 28 | EMBASE Controlled Term thesaurus enhanced |
| NEWS | 22 | APR 28 | IMSRESEARCH reloaded with enhancements |
| NEWS | 23 | MAY 30 | INPAFAMDB now available on STN for patent family searching |
| NEWS | 24 | MAY 30 | DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option |
| NEWS | 25 | JUN 06 | EPFULL enhanced with 260,000 English abstracts |
| NEWS | 26 | JUN 06 | KOREAPAT updated with 41,000 documents |
| NEWS | 27 | JUN 13 | USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications |
| NEWS | 28 | JUN 19 | CAS REGISTRY includes selected substances from web-based collections |
| NEWS | 29 | JUN 25 | CA/CAplus and USPAT databases updated with IPC reclassification data |
| NEWS | 30 | JUN 30 | AEROSPACE enhanced with more than 1 million U.S. patent records |

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NEWS 31 JUN 30 EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations

NEWS 32 JUN 30 STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in

NEWS 33 JUN 30 STN AnaVist enhanced with database content from EPFULL

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

| | |
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DICTIONARY FILE UPDATES: 15 JUL 2008 HIGHEST RN 1034171-01-1

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

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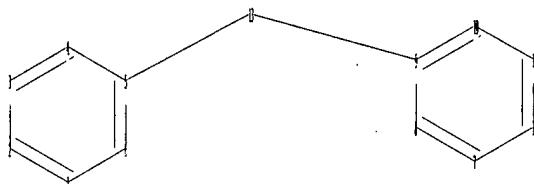
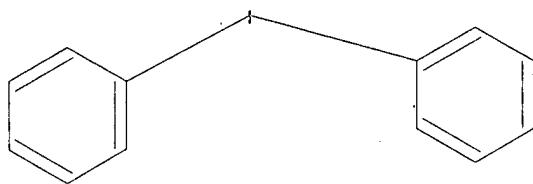
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chain nodes :

13

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

5-13 9-13

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

5-13 9-13

normalized bonds :

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Match level :

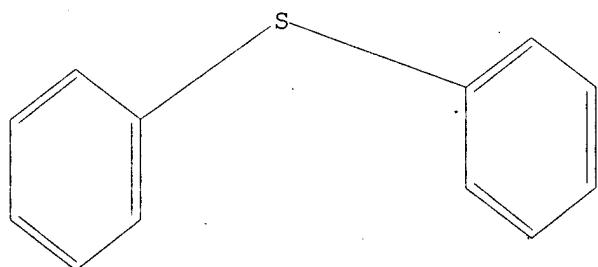
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:CLASS

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL

FULL SEARCH INITIATED 07:44:00 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 257915 TO ITERATE

100.0% PROCESSED 257915 ITERATIONS
SEARCH TIME: 00.00.01

133701 ANSWERS

L2 133701 SEA SSS FUL L1

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| => FILE CAPLUS COST IN U.S. DOLLARS FULL ESTIMATED COST | SINCE FILE ENTRY 178.36 | TOTAL SESSION 178.57 |
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FILE 'CAPLUS' ENTERED AT 07:44:10 ON 16 JUL 2008
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FILE COVERS 1907 - 16 Jul 2008 VOL 149 ISS 3
FILE LAST UPDATED: 15 Jul 2008 (20080715/ED)

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Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> S L2
L3 69197 L2

=> S L3 AND DEUTERATION
10283 DEUTERATION
L4 17 L3 AND DEUTERATION

=> D L4 IBIB ABS HITSTR 1-17

L4 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:278402 CAPLUS
DOCUMENT NUMBER: 144:150064
TITLE: Highly Diastereoselective Deuteration of
2-p-Tolylsulfinyl Ethylbenzene at Benzylic Position
Ruano, Jose L.; Aranda, M.
CORPORATE SOURCE: Departamento de Quimica Organica, Universidad Autonoma
de Madrid, Madrid, Spain
SOURCE: Phosphorus, Sulfur and Silicon and the Related
Elements (2005), 180(5-6), 1439-1440
CODEN: PSSLEC; ISSN: 1042-6507
PUBLISHER: Taylor & Francis, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:150064
AB The lithium diisopropylamide-mediated deprotonation of the title compound,
1-ethyl-2-[(4-methylphenyl)sulfinyl]benzene and subsequent treatment with
methanol (CH3OD) gave a single mono-deuterated isomer. Deprotonation of
the corresponding (ethyl-d2)[(methylphenyl)sulfinyl]benzene gave a

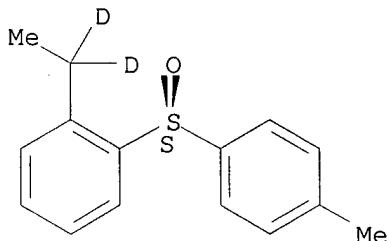
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diastereomer of opposite configuration. The deprotonation is diastereoselective, but the resulting carbanions are configurationally unstable and invert their configuration before reacting with an electrophile. A symposium report from the Twenty-First International Symposium on the Organic Sulfur (ISOCS-XXI).

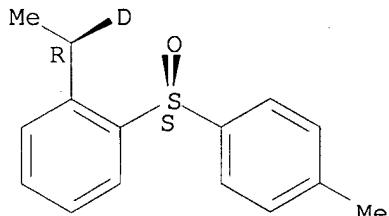
IT 873949-09-8P 873949-10-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(stereoselective de-deuteration and protonation of
(ethyl-d2) [(methylphenyl)sulfinyl]benzene at benzylic position)
RN 873949-09-8 CAPLUS
CN Benzene, 1-(ethyl-1,1-d2)-2-[(S)-(4-methylphenyl)sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



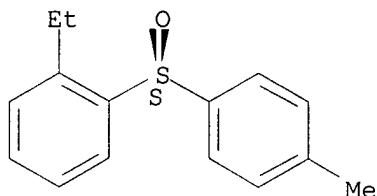
RN 873949-10-1 CAPLUS
CN Benzene, 1-[(1R)-ethyl-1-d]-2-[(S)-(4-methylphenyl)sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 302934-10-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective deprotonation and deuteration of
ethyl[(methylphenyl)sulfinyl]benzene at benzylic position using
methanol (CH3OD) as reactant)
RN 302934-10-7 CAPLUS
CN Benzene, 1-ethyl-2-[(S)-(4-methylphenyl)sulfinyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



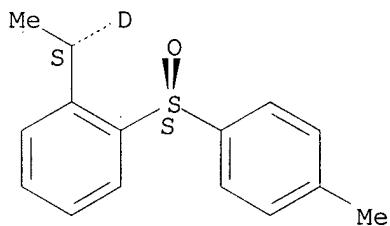
IT 873949-08-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (stereoselective deprotonation and deuteration of ethyl[(4-methylphenyl)sulfinyl]benzene at benzylic position using methanol (CH₃OD) as reactant)

RN 873949-08-7 CAPLUS

CN Benzene, 1-[(1S)-ethyl-1-d]-2-[(S)-(4-methylphenyl)sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:101109 CAPLUS

DOCUMENT NUMBER: 140:163571

TITLE: Process for preparation of deuterated aromatic compounds

INVENTOR(S): Ito, Nobuhiro; Maesawa, Tsuneaki; Muto, Kazushige; Hirota, Kosaku; Sajiki, Hironao

PATENT ASSIGNEE(S): Wako Pure Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2004011400 | A1 | 20040205 | WO 2003-JP8783 | 20030710 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, | | | | |

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KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
CA 2493773 A1 20040205 CA 2003-2493773 20030710
AU 2003248267 A1 20040216 AU 2003-248267 20030710
EP 1535889 A1 20050601 EP 2003-771263 20030710
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
CN 1675145 A 20050928 CN 2003-818820 20030710
US 20070255076 A1 20071101 US 2007-521531 20070222
PRIORITY APPLN. INFO.: JP 2002-219005 A 20020726
WO 2003-JP8783 W 20030710

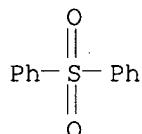
AB This invention pertains to a method for deuterating a compound having an aromatic ring in the presence of an activated catalyst. For example, phenol was treated with D₂O in the presence of Pt/C to give C₆D₅OH in 98% deuterating rate. This invention provides a method to make deuterated aromatic compds. in mild conditions.

IT 127-63-9, Diphenylsulfone 139-66-2, Diphenyl sulfide
945-51-7, Diphenyl sulfoxide

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of deuterated aromatic compds.)

RN 127-63-9 CAPLUS

CN Benzene, 1,1'-sulfonylbis- (CA INDEX NAME)



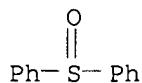
RN 139-66-2 CAPLUS

CN Benzene, 1,1'-thiobis- (CA INDEX NAME)

Ph-S-Ph

RN 945-51-7 CAPLUS

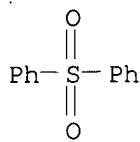
CN Benzene, 1,1'-sulfinylbis- (CA INDEX NAME)



IT 127-63-9DP, Diphenylsulfone, deuterated
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of deuterated aromatic compds.)

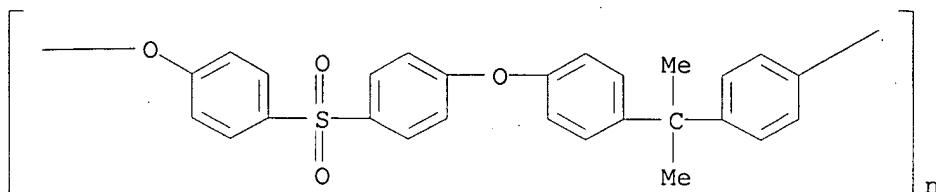
RN 127-63-9 CAPLUS

CN Benzene, 1,1'-sulfonylbis- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:850 CAPLUS
 DOCUMENT NUMBER: 140:218345
 TITLE: Phenylene ring dynamics in bisphenol-A-polysulfone by neutron scattering
 AUTHOR(S): Arrese-Igor, S.; Arbe, A.; Alegria, A.; Colmenero, J.; Frick, B.
 CORPORATE SOURCE: Departamento de Fisica de Materiales, UPV/EHU, San Sebastian, 20080, Spain
 SOURCE: Journal of Chemical Physics (2004), 120(1), 423-436
 CODEN: JCPSA6; ISSN: 0021-9606
 PUBLISHER: American Institute of Physics
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB We have investigated the dynamics of phenylene rings in a glassy polysulfone (bisphenol-A-polysulfone) by means of quasielastic neutron scattering. Nowadays it is well known that these mol. motions are directly connected with the mech. properties of engineering thermoplastics in general. The particular system investigated by us has the advantage that by selective deuteration of the Me groups, the neutron scattering measured is dominated by the incoherent contribution from the protons in the phenylene rings. In this way, the dynamics of such mol. groups can be exptl. isolated. Two different types of neutron spectrometers: time of flight and backscattering, were used in order to cover a wide dynamic range, which extends from microscopic (10^{-13} s) to mesoscopic (10^{-9} s) times. Moreover, neutron diffraction expts. with polarization anal. were also carried out in order to characterize the structural features of the sample investigated. Fast oscillations of increasing amplitude with temperature and π -flips are identified for phenylene rings motions. Due to the structural disorder characteristic of the amorphous state, both mol. motions display a broad distribution of relaxation times, which spreads over several orders of magnitude. Based on the results obtained, we propose a model for phenylene rings dynamics, which combines the two kinds of mol. motions identified. This model nicely describes the neutron scattering results in the whole dynamic range investigated.
 IT 25135-51-7
 RL: PRP (Properties)
 (phenylene ring dynamics in bisphenol-A-polysulfone by neutron scattering)
 RN 25135-51-7 CAPLUS
 CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene(1-methylethyldene)-1,4-phenylene] (CA INDEX NAME)



REFERENCE COUNT: 80 THERE ARE 80 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:190689 CAPLUS

DOCUMENT NUMBER: 139:100895

TITLE: Synthesis of deuterated 4,4'-diaminodiphenylsulfone (Dapsone) and related analogs

AUTHOR(S): Gannett, Peter M.; Johnson, Edward M., II; Grimes, Michael A.; Myers, Alan L.; Deavers, Robert E., III; Tracy, Timothy S.

CORPORATE SOURCE: Department of Basic Pharmaceutical Sciences, School of Pharmacy, West Virginia University, Morgantown, WV, 26506-9530, USA

SOURCE: Journal of Labelled Compounds & Radiopharmaceuticals (2003), 46(2), 107-114

CODEN: JLCRD4; ISSN: 0362-4803

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:100895

AB A general scheme for the synthesis of 4,4'-diaminodiphenylsulfone-d5 (Dapsone) from aniline-d5 is described. The method may have general application and the preparation of the related analogs, 4,4'-dimethylaminodiphenyl sulfone from aniline-d5 and 4,4'-dimethoxydiphenyl sulfone from phenol-d5, is also described.

IT 77-46-3P 34049-42-8P 557794-37-3P

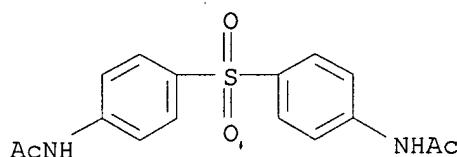
557794-42-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(hydrolytic deprotection of; preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

RN 77-46-3 CAPLUS

CN Acetamide, N,N'-(sulfonyldi-4,1-phenylene)bis- (CA INDEX NAME)

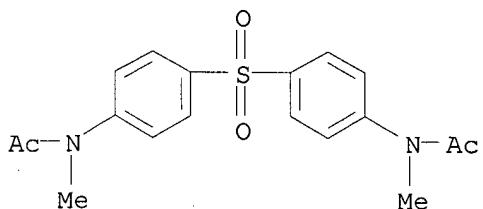


RN 34049-42-8 CAPLUS

CN Acetamide, N,N'-(sulfonyldi-4,1-phenylene)bis[N-methyl- (9CI) (CA INDEX NAME)]

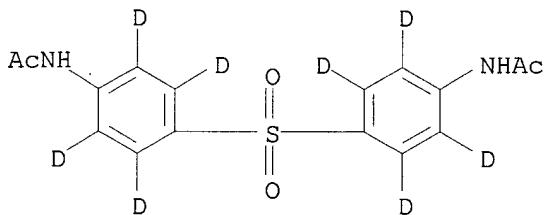
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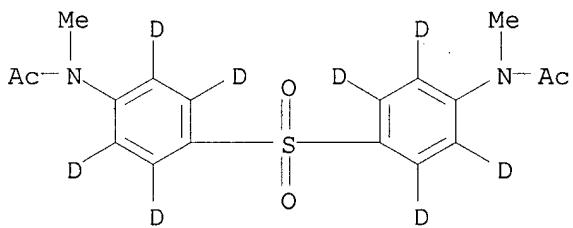
RN 557794-37-3 CAPLUS

CN Acetamide, N,N'-[sulfonyldi(4,1-phenylene-2,3,5,6-d4)]bis- (9CI) (CA INDEX NAME)



RN 557794-42-0 CAPLUS

CN Acetamide, N,N'-[sulfonyldi(4,1-phenylene-2,3,5,6-d4)]bis[N-methyl- (9CI) (CA INDEX NAME)]



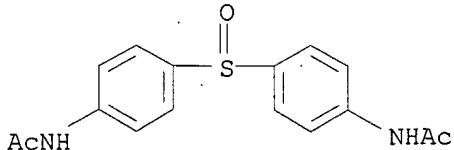
IT 5423-16-5P 557794-36-2P 557794-40-8P
557794-41-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(oxidation of; preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

RN 5423-16-5 CAPLUS

CN Acetamide, N,N'-(sulfinyldi-4,1-phenylene)bis- (9CI) (CA INDEX NAME)

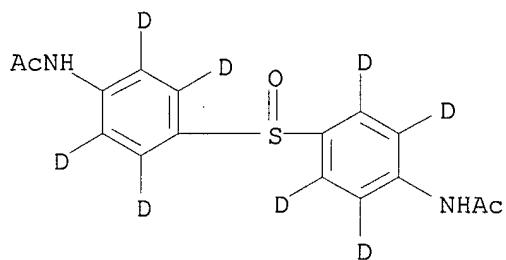


RN 557794-36-2 CAPLUS

CN Acetamide, N,N'-[sulfinyldi(4,1-phenylene-2,3,5,6-d4)]bis- (9CI) (CA INDEX NAME)

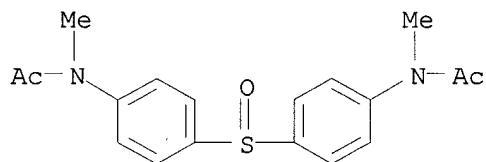
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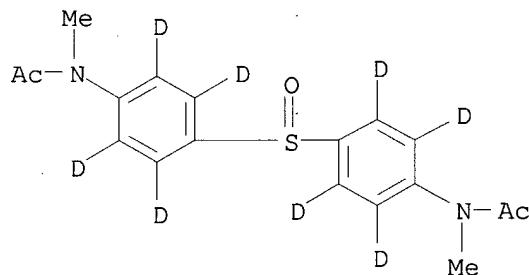
RN 557794-40-8 CAPLUS

CN Acetamide, N,N'-(sulfinyldi-4,1-phenylene)bis[N-methyl- (9CI)] (CA INDEX NAME)



RN 557794-41-9 CAPLUS

CN Acetamide, N,N'-[sulfinyldi(4,1-phenylene-2,3,5,6-d4)]bis[N-methyl- (9CI)] (CA INDEX NAME)

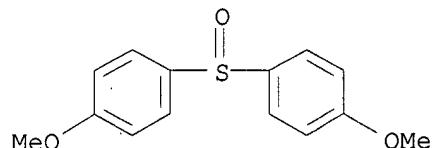


IT 1774-36-3P 557794-44-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(oxidation of; preparation of deuterated diaminodiphenylsulfone and related
analogs using deuterated aniline and phenol as starting compds.)

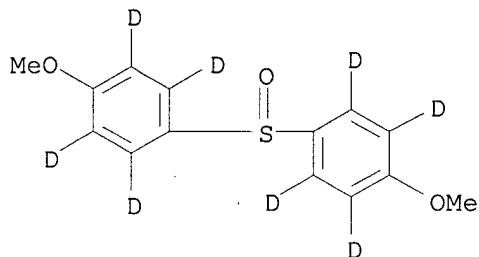
RN 1774-36-3 CAPLUS

CN Benzene, 1,1'-sulfinylbis[4-methoxy- (CA INDEX NAME)

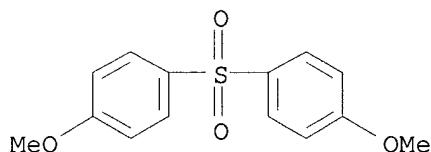


RN 557794-44-2 CAPLUS

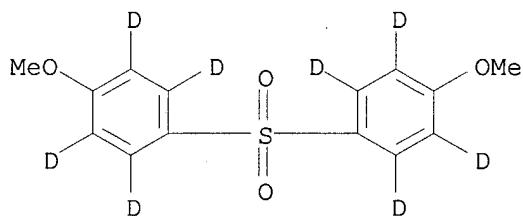
CN Benzene-1,2,4,5-d4, 3,3'-sulfinylbis[6-methoxy- (9CI)] (CA INDEX NAME)



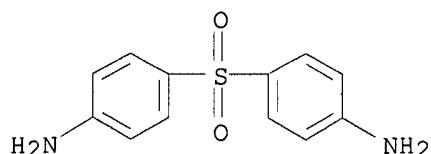
IT 3112-80-9P 557794-45-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of deuterated diaminodiphenylsulfone and related analogs using
 deuterated aniline and phenol as starting compds.)
 RN 3112-80-9 CAPLUS
 CN Benzene, 1,1'-sulfonylbis[4-methoxy- (CA INDEX NAME)



RN 557794-45-3 CAPLUS
 CN Benzene-1,2,4,5-d4, 3,3'-sulfonylbis[6-methoxy- (9CI) (CA INDEX NAME)



IT 80-08-0P 7324-96-1P 557794-38-4P
 557794-43-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of deuterated diaminodiphenylsulfone and related analogs using
 deuterated aniline and phenol as starting compds.)
 RN 80-08-0 CAPLUS
 CN Benzenamine, 4,4'-sulfonylbis- (CA INDEX NAME)

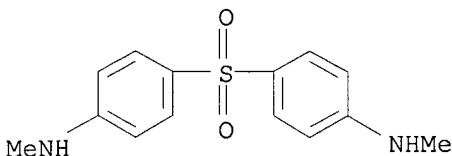


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07/16/2008

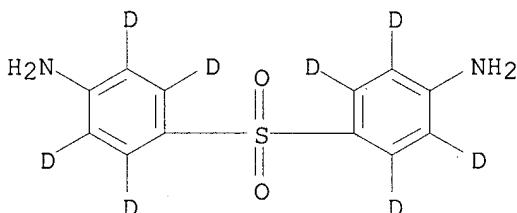
RN 7324-96-1 CAPLUS

CN Benzenamine, 4,4'-sulfonylbis[N-methyl- (CA INDEX NAME)



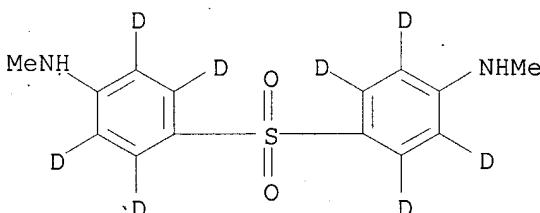
RN 557794-38-4 CAPLUS

CN Benzen-2,3,5,6-d4-amine, 4,4'-sulfonylbis- (9CI) (CA INDEX NAME)



RN 557794-43-1 CAPLUS

CN Benzen-2,3,5,6-d4-amine, 4,4'-sulfonylbis[N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:739026 CAPLUS

DOCUMENT NUMBER: 126:103660

ORIGINAL REFERENCE NO.: 126:19997a,20000a

TITLE: Magnesium methoxide complexation in the control of chemical reactions

AUTHOR(S): Baker, S. Richard; Cadman, Michael L. F.; Crombie, Leslie; Edwards, David A. V.; Mistry, Jayshree

CORPORATE SOURCE: Dep. Chem., Univ. Nottingham, Nottingham, NG7 2RD, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1996), (22), 2705-2713

PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The insolubility of complex magnesium chelates makes experimentation difficult,

so smaller complexes were used as models for NMR and deuteration studies. Treatment of Me cyanoacetate with magnesium methoxide however did not give a simple chelate but a novel kinetic Claisen condensation product, Me 2,4-dicyano-3-hydroxy-2-butenoate, sequestered as its magnesium-derivative. Replacement of magnesium methoxide by the non-chelating base sodium methoxide gave the known thermodyn. 1,2-addition product, di-Me 3-amino-2-cyano-2-pentenedioate. A crossed Claisen product, di-Me 2-cyano-3-hydroxy-2-butenedioate, was obtained from di-Et oxalate and Me cyanoacetate in the presence of magnesium methoxide. However, replacement of the oxalate by Ph cyanomethyl sulfoxide gave a crossed 1,2-addition product, Me 3-amino-2-cyano-4-phenylsulfinyl-2-butenoate. Reactions between Ph cyanomethyl sulfoxide or phenylsulfinylacetone and Me 2-methoxymethyleneacetooacetate were carried out in the presence of varying amts. of sodium and magnesium methoxides. The products were pyrones, pyridones and aminobenzoates. When sodium methoxide was used in the phenylsulfinylacetone reaction the major product was a pyridine, but with magnesium methoxide it was a hydroxyaminobenzoate. This dichotomy was explained as a consequence of magnesium complexation by the substrate.

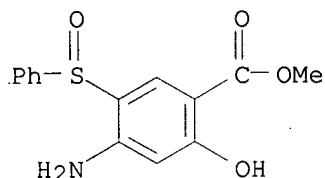
IT 186047-34-7P 186047-36-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(magnesium methoxide complexation in control of chemical reactions)

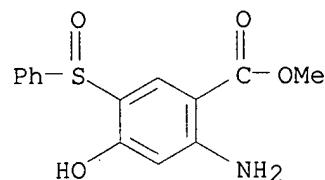
RN 186047-34-7 CAPLUS

CN Benzoic acid, 4-amino-2-hydroxy-5-(phenylsulfinyl)-, methyl ester (CA INDEX NAME)



RN 186047-36-9 CAPLUS

CN Benzoic acid, 2-amino-4-hydroxy-5-(phenylsulfinyl)-, methyl ester (CA INDEX NAME)



REFERENCE COUNT:

43

THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1992:235372 CAPLUS

DOCUMENT NUMBER: 116:235372

ORIGINAL REFERENCE NO.: 116:39860h,39861a

TITLE: Generation of new dithia dications from sterically congested 1,9-dithiodibenzothiophenes and their monooxides in concentrated sulfuric acid

AUTHOR(S): Furukawa, Naomichi; Kimura, Takeshi; Horie, Yoji;

10/521,531

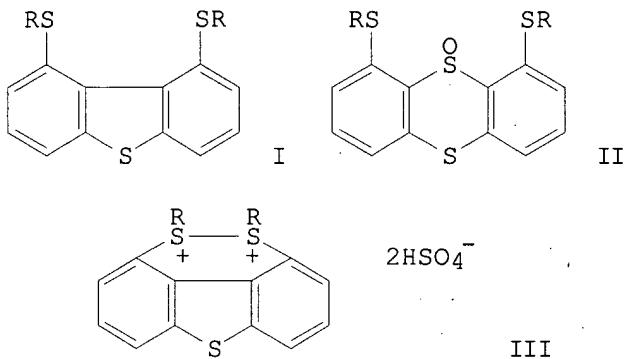
07/16/2008

CORPORATE SOURCE:
SOURCE:

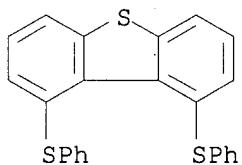
Ogawa, Satoshi; Fujihara, Hisashi
Dep. Chem., Univ. Tsukuba, Tsukuba, 305, Japan
Tetrahedron Letters (1992), 33(11), 1489-90
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE:
LANGUAGE:
GI

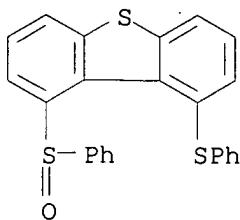
Journal
English



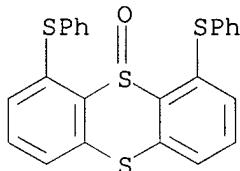
- AB 1,9-Dithiodibenzothiophenes I ($R = Me, Ph$) were prepared by ring contraction of 4,6-dithiothianthrene-5-oxides II with n-butyllithium. I and their monooxides upon dissoln. in concentrate H_2SO_4 afforded the corresponding new dithia dications III. Electrochem. oxidation of I provides the evidence for the neighboring group interaction between the two 1,9-sulfenyl sulfur atoms.
- IT 135489-49-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
- RN 135489-49-5 CAPLUS
- CN Dibenzothiophene, 1,9-bis(phenylthio)- (CA INDEX NAME)



- IT 140868-26-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
- RN 140868-26-4 CAPLUS
- CN Dibenzothiophene, 1-(phenylsulfinyl)-9-(phenylthio)- (CA INDEX NAME)



IT 135489-37-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ring contraction of)
 RN 135489-37-1 CAPLUS
 CN Thianthrene, 1,9-bis(phenylthio)-, 10-oxide (CA INDEX NAME)



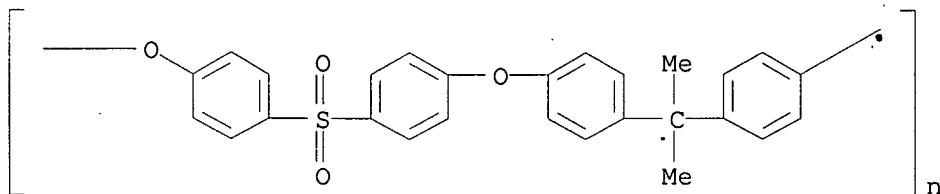
L4 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1991:248061 CAPLUS
 DOCUMENT NUMBER: 114:248061
 ORIGINAL REFERENCE NO.: 114:41911a, 41914a
 TITLE: Aromatic polysulfones bearing functional groups
 INVENTOR(S): Guiver, Michael D.; Kutowy, Oleh
 PATENT ASSIGNEE(S): National Research Council of Canada, Can.
 SOURCE: U.S., 9 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|----------|-----------------|----------|
| US 4999415 | A | 19910312 | US 1988-281042 | 19881207 |
| CA 1304537 | C | 19920630 | CA 1987-554119 | 19871211 |

PRIORITY APPLN. INFO.: CA 1987-554119 A 19871211
 AB The title compds. are prepared by halogenating aromatic polysulfones, lithiating the halogenated polymers, and treating with electrophiles. Thus, an aromatic polysulfone (Udel) was brominated, lithiated with BuLi, and treated with D2O to give a deuterated polymer.
 IT 25135-51-7DP, deuterated, carboxylated and methylated
 25154-01-2DP, derivs. 25608-64-4DP, derivs.
 25839-81-OP
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (manufacture of, by halogenation-lithiation)
 RN 25135-51-7 CAPLUS
 CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene] (CA INDEX NAME)

10/521, 531

07/16/2008



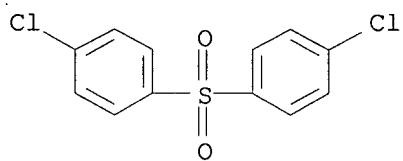
RN 25154-01-2 CAPLUS

CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 1,1'-sulfonylbis[4-chlorobenzene] (CA INDEX NAME)

CM 1

CRN 80-07-9

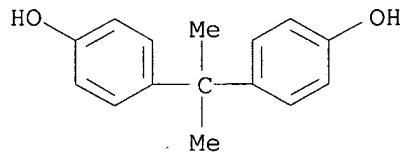
CMF C12 H8 Cl2 O2 S



CM 2

CRN 80-05-7

CMF C15 H16 O2



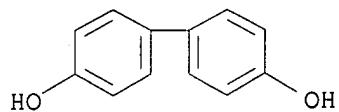
RN 25608-64-4 CAPLUS

CN [1,1'-Biphenyl]-4,4'-diol, polymer with 1,1'-sulfonylbis[4-chlorobenzene] (CA INDEX NAME)

CM 1

CRN 92-88-6

CMF C12 H10 O2

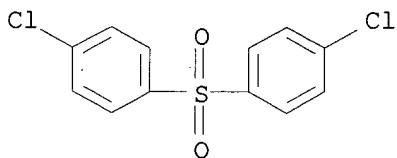


CM 2

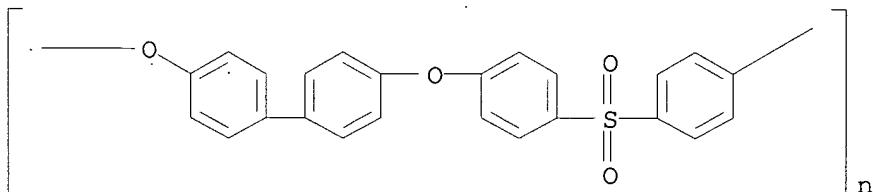
10/521,531

07/16/2008

CRN 80-07-9
CMF C12 H8 Cl2 O2 S



RN 25839-81-0 CAPLUS
CN Poly(oxy[1,1'-biphenyl]-4,4'-diyloxy-1,4-phenylenesulfonyl-1,4-phenylene)
(CA INDEX NAME)



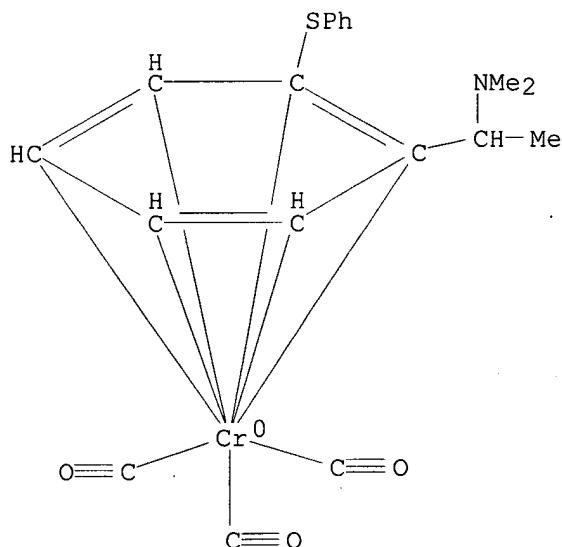
L4 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1990:139357 CAPLUS
DOCUMENT NUMBER: 112:139357
ORIGINAL REFERENCE NO.: 112:23563a,23566a
TITLE: Diastereotopic group selective reactions at π -arene chromium derivatives: deprotonation and nucleophilic addition reactions of substrates bearing benzylic chiral centers
AUTHOR(S): Heppert, Joseph A.; Aube, Jeffrey; Thomas-Miller, M. Elizabeth; Milligan, Michael L.; Takusagawa, Fusao
CORPORATE SOURCE: Dep. Chem. Med. Chem., Univ. Kansas, Lawrence, KS, 66045, USA
SOURCE: Organometallics (1990), 9(3), 727-39
CODEN: ORGND7; ISSN: 0276-7333
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:139357
AB (η^6 -(MeHXC)C₆H₅)Cr(CO)₃ (X = NMe₂, alkoxy) substrates undergo deprotonation by alkylolithium bases to produce, after quenching with electrophiles (E⁺), high diastereomeric excesses (de) of (η^6 -o-E(MeHXC)C₆H₄)Cr(CO)₃ products. The N,N-dimethylamino substrate shows excellent chemoselectivity for ortho metalation, in addition to having $\geq 96\%$ de in the formation of the product isomers. The propensity for ether derivs. to undergo benzylic deprotonation interferes with chemoselectivity in these substrates, although the selectivity for ortho substitution can be improved by employing chelating ether substituents and reduced reaction temps. The stereochem. of deprotonation is evidently controlled by the tendency of the heteroarom side chain to adopt a conformation that minimizes steric interactions with the Cr(CO)₃ moiety and promotes the delivery of the ligated base to a specific ortho hydrogen. NOEDS studies indicate that the conformation of the benzylic side chain in the solns. containing only (η -(MeHXC)C₆H₅)Cr(CO)₃ probably closely mirrors those involved in the delivery of the alkylolithium

reagent. Reactions between (η -(MeH(RO)C)C₆H₅)Cr(CO)₃ and Me₃CLi in Et₂O produced significant quantities of (η^4 , η^2 -2-tert-butylcyclohexadiene-exo-1-ethene)chromium tricarbonyl after the mixture is quenched with a proton donor. The reaction displayed a peculiar temperature dependence, with an approx. 1:1 ratio of the S*,S*,R* and S*,S*,S* diastereomers being produced if the quench is performed below -40° and a 10:1 ratio of the S*,S*,R* and S*,S*,S* isomers, resp., being produced by quenching the reaction at an ambient temperature. An x-ray crystallog. study unambiguously identified the mol. formed in predominance at elevated temps. as the S*,S*,R* exo-ethene Z isomer. The crystal structure of [η^6 -(R*,R*)-o-(Ph₂P)(MeH(Me₂N)C)C₆H₄]Cr(CO)₃ was also determined.

IT 125453-51-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 125453-51-2 CAPLUS

CN Chromium, tricarbonyl[(1,2,3,4,5,6- η)-N,N, α -trimethyl-2-(phenylthio)benzenemethanamine]-, stereoisomer (9CI) (CA INDEX NAME)

L4 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:94533 CAPLUS

DOCUMENT NUMBER: 108:94533

ORIGINAL REFERENCE NO.: 108:15551a,15554a

TITLE: A new rigid sulfur-bridged dithiametacyclophane and its acyclic analogs: direct observation of the transannular bond formation between the three sulfur atoms and isolation of dicationic salts

AUTHOR(S): Fujihara, Hisashi; Chiu, Jer Jye; Furukawa, Naomichi
CORPORATE SOURCE: Dep. Chem., Univ. Tsukuba, Ibaraki, 305, Japan
SOURCE: Journal of the American Chemical Society (1988),

110(4), 1280-4

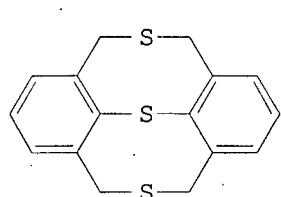
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

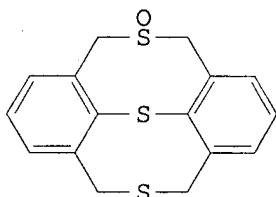
LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:94533

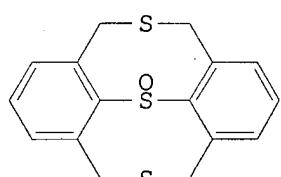
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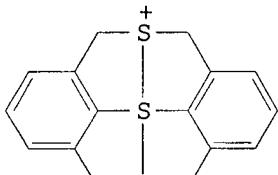
T



III



IV



$$2\text{CF}_3\text{SO}_3^-$$

V

AB A new rigid S-bridged dithiametacyclophane, (methanothiomethano)dibenzodithiocin (I), analogous to acyclic trithia compds., e.g., 2,6-(MeS)2C6H3SPh (II), and its isomeric sulfoxides III and IV were prepared by general methods. The transannular bond formation between the 3 S atoms of I was observed by both 1H and 13C NMR spectroscopy on treating I with concentrated H₂SO₄.

Similar bond formation was also observed for III and IV. A new type of O transfer reaction via the dication of I occurred during H₂SO₄ hydrolysis of I and IV. The dicationic salt V was obtained by treating the sulfoxide IV with (CF₃SO₂)₂O. Evidence for intramolecular S-S interaction between the 3 S atoms of II was found in the reactions of its sulfoxides, e.g., 2,6-(MeS)₂C₆H₃SOPh, with concentrated H₂SO₄. Electrochem. oxidation of II and

and dithio ethers was studied by using cyclic voltammetry. Anodic oxidation of II was 400 mV easier than that of monothia compds. such as Ph₂S because of the intramol. interaction between the three S atoms in II.

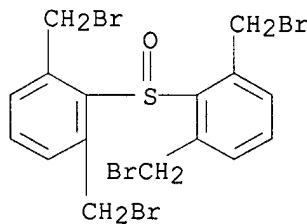
IT 112399-11-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclocondensation of, with sodium sulfide)

RN 112399-11-8 CAPLUS

CN Benzene, 1,1'-sulfinylbis[2,6-bis(bromomethyl)- (9CI) (CA INDEX NAME)



IT 108428-24-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

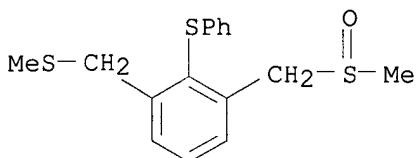
10/521,531

07/16/2008

(preparation and deuteration of)

RN 108428-24-6 CAPLUS

CN Benzene, 1-[(methylsulfinyl)methyl]-3-[(methylthio)methyl]-2-(phenylthio)-
(CA INDEX NAME)



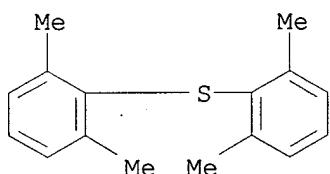
IT 52805-90-0P 54088-93-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation and photochem. bromination of)

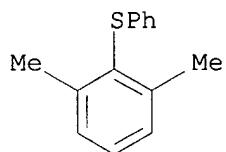
RN 52805-90-0 CAPLUS

CN Benzene, 1,1'-thiobis[2,6-dimethyl- (9CI) (CA INDEX NAME)



RN 54088-93-6 CAPLUS

CN Benzene, 1,3-dimethyl-2-(phenylthio)- (CA INDEX NAME)



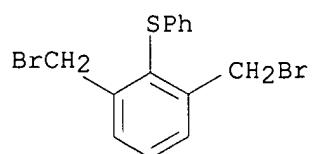
IT 112399-12-9P 112399-13-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation and substitution reaction of, with methanethiolate)

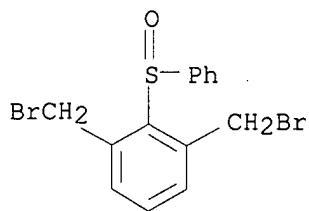
RN 112399-12-9 CAPLUS

CN Benzene, 1,3-bis(bromomethyl)-2-(phenylthio)- (CA INDEX NAME)

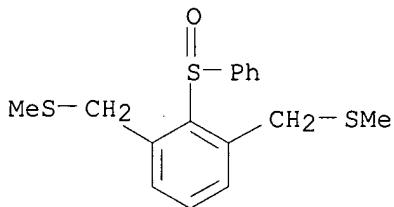


RN 112399-13-0 CAPLUS

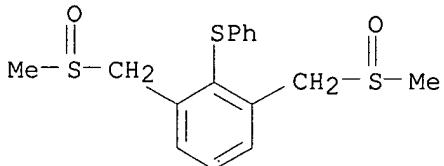
CN Benzene, 1,3-bis(bromomethyl)-2-(phenylsulfinyl)- (CA INDEX NAME)



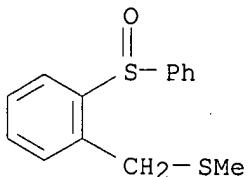
IT 108428-23-5P 108428-25-7P 112335-85-0P
 112399-06-1P 112399-07-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 108428-23-5 CAPLUS
 CN Benzene, 1,3-bis[(methylthio)methyl]-2-(phenylsulfinyl)- (CA INDEX NAME)



RN 108428-25-7 CAPLUS
 CN Benzene, 1,3-bis[(methylsulfinyl)methyl]-2-(phenylthio)- (CA INDEX NAME)



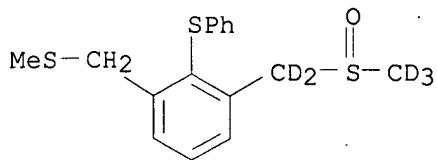
RN 112335-85-0 CAPLUS
 CN Benzene, 1-[(methylthio)methyl]-2-(phenylsulfinyl)- (CA INDEX NAME)



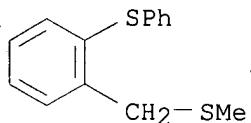
RN 112399-06-1 CAPLUS
 CN Benzene, 1-[(methyl-d3-sulfinyl)methyl-d2]-3-[(methylthio)methyl]-2-(phenylthio)- (9CI) (CA INDEX NAME)

10/521,531

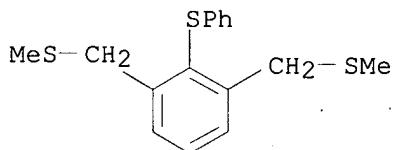
07/16/2008



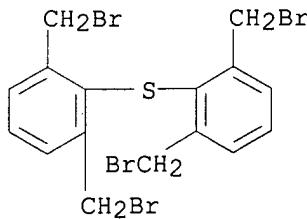
RN 112399-07-2 CAPLUS
CN Benzene, 1-[(methylthio)methyl]-2-(phenylthio)- (CA INDEX NAME)



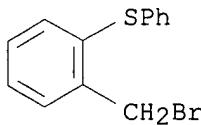
IT 108428-22-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, cyclic voltammetry, and chloroperbenzoate oxidation of)
RN 108428-22-4 CAPLUS
CN Benzene, 1,3-bis[(methylthio)methyl]-2-(phenylthio)- (CA INDEX NAME)



IT 112399-10-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation, oxidation, and cyclocondensation of, with sodium sulfide)
RN 112399-10-7 CAPLUS
CN Benzene, 1,1'-thiobis[2,6-bis(bromomethyl)]- (9CI) (CA INDEX NAME)



IT 37660-43-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(substitution reaction of, with methanethiolate)
RN 37660-43-8 CAPLUS
CN Benzene, 1-(bromomethyl)-2-(phenylthio)- (CA INDEX NAME)



L4 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1988:37295 CAPLUS
 DOCUMENT NUMBER: 108:37295
 ORIGINAL REFERENCE NO.: 108:6219a,6222a
 TITLE: Synthesis of benzalchloroimine-1-d by umpolung and catalytic decomposition of benzalchloroimine
 AUTHOR(S): Zhang, Jingliu
 CORPORATE SOURCE: Dep. Chem., Fujian Norm. Univ., Fuzhou, Peop. Rep. China
 SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1987), 8(3), 246-8
 CODEN: KTHPDM; ISSN: 0251-0790
 DOCUMENT TYPE: Journal
 LANGUAGE: Chinese
 OTHER SOURCE(S): CASREACT 108:37295
 AB A simple preparative method of benzalchloroimine-1-d was reported. The kinetic study on the reaction of RC₆H₄CH:NCl (R = H, 4-Me, 4-MeO, 4-Cl) with Ph₂S in benzene has been carried out. On the basis of the Hammett ρ value and the kinetic isotope effect, the mechanism of the reaction was discussed.
 IT 139-66-2, Diphenylsulfide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (decomposition by, of benzachloroimine, kinetics of)
 RN 139-66-2 CAPLUS
 CN Benzene, 1,1'-thiobis- (CA INDEX NAME)

Ph—S—Ph

L4 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1988:6760 CAPLUS
 DOCUMENT NUMBER: 108:6760
 ORIGINAL REFERENCE NO.: 108:1273a,1276a
 TITLE: Synthesis and characterization of deuterated poly(arylene ether sulfones)
 AUTHOR(S): Hedrick, J. L.; Dumais, J. J.; Jelinski, L. W.;
 Patsiga, R. A.; McGrath, J. E.
 CORPORATE SOURCE: Almaden Res. Cent., IBM, San Jose, CA, 95120-6099, USA
 SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (1987), 25(8), 2289-300
 CODEN: JPACEC; ISSN: 0887-624X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Selectively deuterated poly(arylene ether sulfones) were prepared for neutron scattering studies and for deuterium NMR investigations. The availability of these model macromols. permitted mol.-level identification of the motions responsible for the low-temperature relaxations that were observed
 in the dynamic mech. spectra of these engineering polymers. Three labeled sites on the appropriate monomers (bisphenol A and 4,4'-dichlorodiphenyl

sulfone) were prepared from deuterated intermediates and characterized via chromatog., spectroscopic, and thermal analyses. The deuterium exchange between Me and aromatic sites that occurred during synthesis was quantified. These labeled monomers were mixed with hydrogenous monomers to synthesize the high-mol-weight title polymer. A synthetic technique involving N-methyl-2-pyrrolidone/K₂CO₃ was employed to afford high-mol.-weight polymers. The polymers were characterized by Fourier-transform IR, proton, carbon, and deuterium NMR, intrinsic viscosities, and thermal anal. Mol. wts. of the labeled polymers were similar to unlabeled systems.

IT 41209-98-7DP, Bisphenol A-4,4'-difluorodiphenylsulfone copolymer, deuterated 92739-59-8P 111938-15-9P

RL: PREP (Preparation)

(preparation and characterization of)

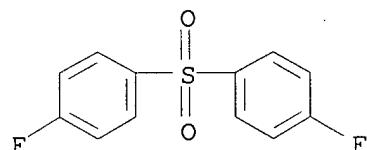
RN 41209-98-7 CAPLUS

CN Phenol, 4,4'-(1-methylethyldene)bis-, polymer with 1,1'-sulfonylbis[4-fluorobenzene] (CA INDEX NAME)

CM 1

CRN 383-29-9

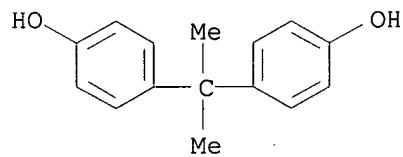
CMF C12 H8 F2 O2 S



CM 2

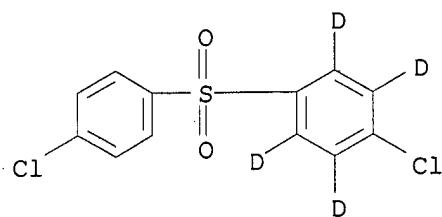
CRN 80-05-7

CMF C15 H16 O2



RN 92739-59-8 CAPLUS

CN Benzene-1,2,4,5-d4, 3-chloro-6-[(4-chlorophenyl)sulfonyl]- (9CI) (CA INDEX NAME)



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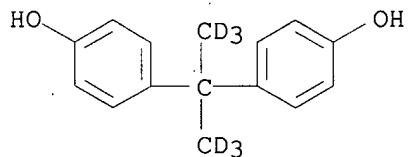
RN 111938-15-9 CAPLUS

CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 4,4'-[1-(methyl-d3)ethylidene-2,2,2-d3]bis[phenol] and 1,1'-sulfonylbis[4-fluorobenzene] (9CI) (CA INDEX NAME)

CM 1

CRN 86588-58-1

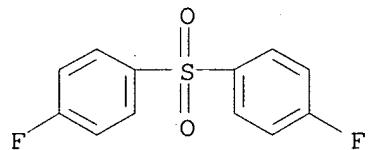
CMF C15 H10 D6 O2



CM 2

CRN 383-29-9

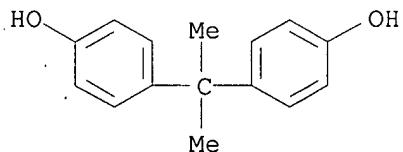
CMF C12 H8 F2 O2 S



CM 3

CRN 80-05-7

CMF C15 H16 O2



L4 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:405793 CAPLUS

DOCUMENT NUMBER: 103:5793

ORIGINAL REFERENCE NO.: 103:1043a,1046a

TITLE: Collision-induced dissociation of negative ions in the gas phase: [aryl sulfide]-, [aryl sulfinyl]- and [aryl sulfonyl]-

AUTHOR(S): Bowie, John H.; Stringer, Michael B.

CORPORATE SOURCE: Dep. Org. Chem., Univ. Adelaide, Adelaide, 5001, Australia

SOURCE: Organic Mass Spectrometry (1985), 20(2), 138-42

CODEN: ORMSBG; ISSN: 0030-493X

10/521,531

07/16/2008

DOCUMENT TYPE:

Journal

LANGUAGE:

English

OTHER SOURCE(S):

CASREACT 103:5793

AB In this abstract R = aryl. The collision-induced dissociation of RS- are complex and occur without prior ring H scrambling (e.g., PhS- gives C2HS- and HS- while p-CD3C6H4S- gives C6H4S-, CD3C4S-, and C2HS-). In contrast, all decompns. of PhCH2S- are preceeded by sp. benzylic and Ph group H interchange reactions. RS(O)- and RSO2- ions rearrange. PhS(O)- gives PhO- and PhS-; PhSO2- gives PhO-. PhCH2SO- is dehydrated following benzylic and Ph group H exchange.

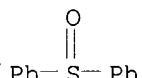
IT 945-51-7 952-97-6 4171-83-9

RL: PRP (Properties)

(collision induced mass spectrum of)

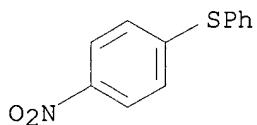
RN 945-51-7 CAPLUS

CN Benzene, 1,1'-sulfinylbis- (CA INDEX NAME)



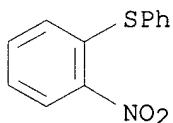
RN 952-97-6 CAPLUS

CN Benzene, 1-nitro-4-(phenylthio)- (CA INDEX NAME)



RN 4171-83-9 CAPLUS

CN Benzene, 1-nitro-2-(phenylthio)- (CA INDEX NAME)



L4 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:405764 CAPLUS

DOCUMENT NUMBER: 97:5764

ORIGINAL REFERENCE NO.: 97:1119a,1122a

TITLE: A ready access to [1,1-D2] primary alcohols

AUTHOR(S): Badet, Bernard; Julia, Marc; Sarrazin, Claire Anne

CORPORATE SOURCE: Lab. Chim., Ec. Norm. Super., Paris, 75231/05, Fr.

SOURCE: Bulletin de la Societe Chimique de France (1982),
(1-2, Pt. 2), 33-6

CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE: Journal

LANGUAGE: English

AB RCH2S+R12 X- [R = Pr, n-hexyl, n-heptyl, n-nonyl, p-MeOC6H4CH2, CMe2:CH,
CMe2:CH(CH2)2CMe:CH, etc.; R1 = Ph, n-dodecyl, Me; X = ClO4, BF4,
Cr(SCN)4(NH3)2], prepared from RCH2OH and R21S, were deuterated with

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07/16/2008

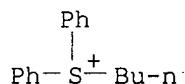
NaOD-D₂O and the resultant RCD₂S+R₂1X- were treated with AcOK to give RCD₂OAc, which on alkaline hydrolysis gave RCD₂OH.

IT 10504-66-2P 77381-66-9P 82054-23-7P
82054-25-9P 82054-27-1P 82054-29-3P
82054-43-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and deuteration of)

RN 10504-66-2 CAPLUS
CN Sulfonium, butyldiphenyl-, perchlorate (1:1) (CA INDEX NAME)

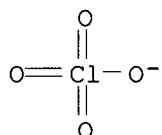
CM 1

CRN 29245-65-6
CMF C₁₆ H₁₉ S



CM 2

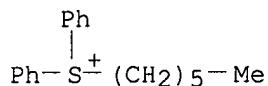
CRN 14797-73-0
CMF Cl O₄



RN 77381-66-9 CAPLUS
CN Sulfonium, hexyldiphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 46971-37-3
CMF C₁₈ H₂₃ S

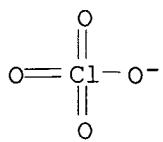


CM 2

CRN 14797-73-0
CMF Cl O₄

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07/16/2008



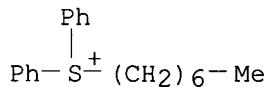
RN 82054-23-7 CAPLUS

CN Sulfonium, heptyldiphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 82054-22-6

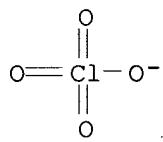
CMF C19 H25 S



CM 2

CRN 14797-73-0

CMF Cl O4



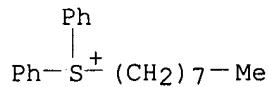
RN 82054-25-9 CAPLUS

CN Sulfonium, octyldiphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 82054-24-8

CMF C20 H27 S



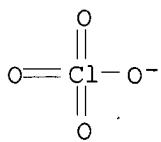
CM 2

CRN 14797-73-0

CMF Cl O4

10/521,531

07/16/2008



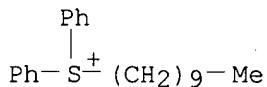
RN 82054-27-1 CAPLUS

CN Sulfonium, decyldiphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 82054-26-0

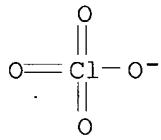
CMF C22 H31 S



CM 2

CRN 14797-73-0

CMF Cl O4



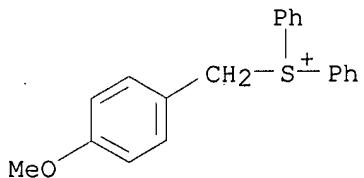
RN 82054-29-3 CAPLUS

CN Sulfonium, [(4-methoxyphenyl)methyl]diphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 82054-28-2

CMF C20 H19 O S



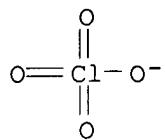
CM 2

CRN 14797-73-0

CMF Cl O4

10/521,531

07/16/2008



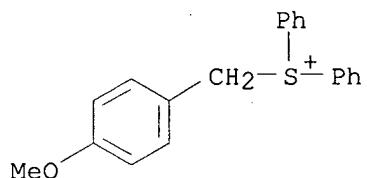
RN 82054-43-1 CAPLUS

CN Sulfonium, [(4-methoxyphenyl)methyl]diphenyl-, (OC-6-11)-diamminetetrakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 82054-28-2

CMF C20 H19 O S

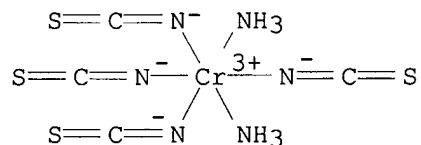


CM 2

CRN 16248-93-4

CMF C4 H6 Cr N6 S4

CCI CCS



IT 139-66-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with alcs.)

RN 139-66-2 CAPLUS

CN Benzene, 1,1'-thiobis- (CA INDEX NAME)

Ph-S-Ph

L4 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:52216 CAPLUS

DOCUMENT NUMBER: 96:52216

ORIGINAL REFERENCE NO.: 96:8601a,8604a

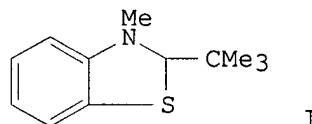
TITLE: Reaction of benzothiazoline with benzyne. Generation
of the novel heterocyclic sulfur ylide,
benzothiazolinium S-ylide

AUTHOR(S): Hori, Mikio; Kataoka, Tadashi; Shimizu, Hiroshi; Ueda,

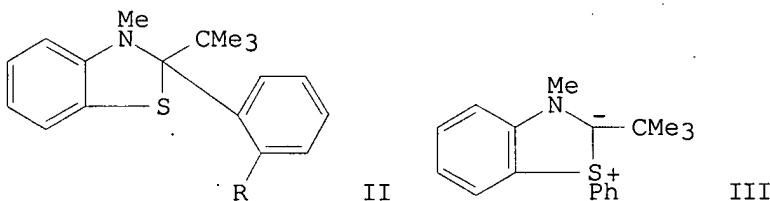
10/521,531

07/16/2008

CORPORATE SOURCE: Norihiro
Gifu Coll. Pharm., Gifu, 502, Japan
SOURCE: Tetrahedron Letters (1981), 22(32), 3071-4
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 96:52216
GI



I



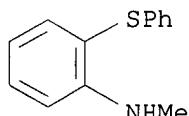
AB Reaction of the benzothiazoline I with benzyne, formed by treatment of o-BrC₆H₄F with Mg (room temperature, 4 h, THF), gave the benzothiazolines II (R = H, F) (34, 31%, resp.) and 18% o-PhSC₆H₄NHMe. The mechanism involved the formation of the heterocyclic S ylide III, which underwent a 1,2-intermol. shift to give II (R = H).

IT 54287-73-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with benzyne)

RN 54287-73-9 CAPLUS

CN Benzenamine, N-methyl-2-(phenylthio)- (CA INDEX NAME)



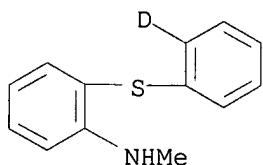
IT 80335-41-7P 80335-44-0P 80335-45-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 80335-41-7 CAPLUS

CN Benzenamine, N-methyl-2-(phenyl-2-d-thio)- (9CI) (CA INDEX NAME)

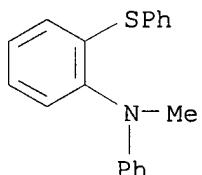
10/521,531

07/16/2008



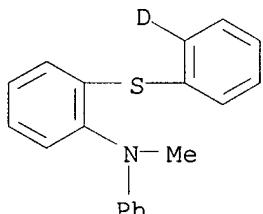
RN 80335-44-0 CAPLUS

CN Benzenamine, N-methyl-N-phenyl-2-(phenylthio)- (CA INDEX NAME)



RN 80335-45-1 CAPLUS

CN Benzenamine, N-methyl-N-phenyl-2-(phenyl-2-d-thio)- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1980:94130 CAPLUS

DOCUMENT NUMBER: 92:94130

ORIGINAL REFERENCE NO.: 92:15377a,15380a

TITLE: Arynic condensations of ketone enolates. 15. New synthetic applications of the condensation of α,β -unsaturated ketone enolates on benzyne

AUTHOR(S): Essiz, Munir; Guillaumet, Gerald; Brunet, Jean Jacques; Caubere, Paul

CORPORATE SOURCE: Lab. Chim. Org. I, Univ. Nancy I, Nancy, 54037, Fr.

SOURCE: Journal of Organic Chemistry (1980), 45(2), 240-6

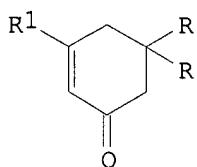
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

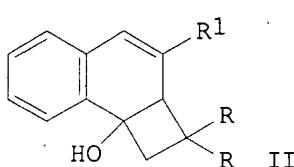
LANGUAGE: English

OTHER SOURCE(S): CASREACT 92:94130

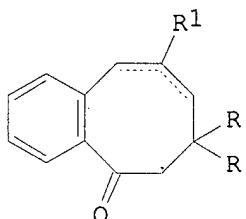
GI



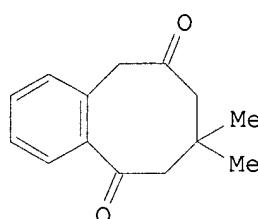
I



II



III



IV

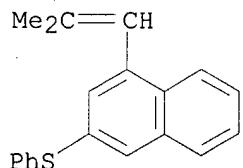
AB Arynic condensations of both cyclic and acyclic α,β -unsatd. ketone enolates were studied. Condensation of substituted cyclohexenone I (e.g., R = H, Me; R1 = Me, CHMe₂, Ph, PhO, 4-FC₆H₄O, EtS, PhS, 4-MeOC₆H₄S) enolates with benzyne gave a new class of cyclobutanols II. Ring opening of II under basic conditions was a good method of preparing benzocyclooctadienones III (Δ^8) and III (Δ^9) and, in appropriate cases, benzocyclooctenediones IV. Thermal dehydrtion of II gave 1,3-disubstituted naphthalenes in good yields. Condensation of a few acyclic α,β -unsatd. ketone enolates with benzyne are of synthetic usefulness; depending on the substituents on both sides of the carbonyl group, these condensations may lead either to substituted naphthalenes or to Ph ketones or tetralones.

IT 72035-89-3P 72035-90-6P 72035-99-5P
72036-00-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 72035-89-3 CAPLUS

CN Naphthalene, 1-(2-methyl-1-propenyl)-3-(phenylthio)- (9CI) (CA INDEX NAME)

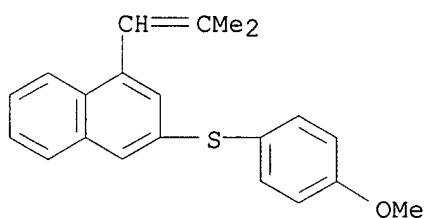


RN 72035-90-6 CAPLUS

CN Naphthalene, 3-[(4-methoxyphenyl)thio]-1-(2-methyl-1-propenyl)- (9CI) (CA INDEX NAME)

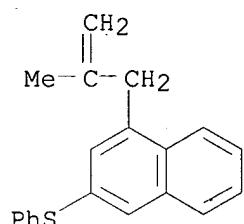
10/521,531

07/16/2008



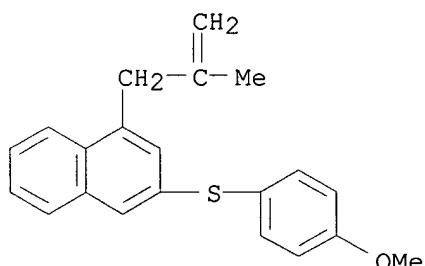
RN 72035-99-5 CAPLUS

CN Naphthalene, 1-(2-methyl-2-propenyl)-3-(phenylthio)- (9CI) (CA INDEX NAME)



RN 72036-00-1 CAPLUS

CN Naphthalene, 3-[(4-methoxyphenyl)thio]-1-(2-methyl-2-propenyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1978:6064 CAPLUS

DOCUMENT NUMBER: 88:6064

ORIGINAL REFERENCE NO.: 88:1029a,1032a

TITLE: Hydrochloric acid and hydrobromic acid complexes with oxygen bases

AUTHOR(S): Rospenk, M.; Koll, A.; Sobczyk, L.

CORPORATE SOURCE: Inst. Chem., Univ. Wroclaw, Wroclaw, Pol.

SOURCE: Advances in Molecular Relaxation and Interaction Processes (1977), 11(1-2), 129-42

CODEN: AMRPDF; ISSN: 0378-4487

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The formation consts., IR, and dipole moments of HCl complexes with sulfoxides, phosphine oxides, or N-oxides are observed in CCl₄. The low formation consts. are due to an entropy effect related to the free

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07/16/2008

rotation of HCl mols. in CCl₄. A plot of H-bond polarity vs. oxide basicity exhibits an inversion range in which a sharp increase in the dipole moment occurs due to the proton transfer equilibrium. Complexes from the inversion range exhibit continuous IR absorption at 600-3000 cm⁻¹ due to the overlap of 2 very broad absorptions which are shaped by the coupling with internal modes. The continuum on deuteration exhibits a narrowing at both the low and high frequency sides due to the decrease in the tunneling probability and the isotope effect (γ HCl/ γ DCl 1.30) on the protonic stretching vibration, resp. A plot of the X \rightarrow O (X = N, S, P) stretching vibration shifts vs. the basicity of the oxides is similar to the H bond polarity curve. The oxide complexes with HBr in CCl₄ are also discussed.

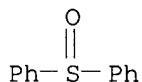
IT 26394-13-8 64990-52-9

RL: PRP (Properties)

(IR and formation consts. of)

RN 26394-13-8 CAPLUS

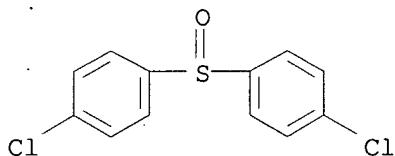
CN Hydrochloric acid, compd. with 1,1'-sulfinylbis[benzene] (1:1) (9CI) (CA INDEX NAME)



● HCl

RN 64990-52-9 CAPLUS

CN Hydrochloric acid, compd. with 1,1'-sulfinylbis[4-chlorobenzene] (1:1) (9CI) (CA INDEX NAME)



● HCl

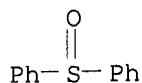
IT 945-51-7 3085-42-5

RL: PRP (Properties)

(IR of, basicity in relation to)

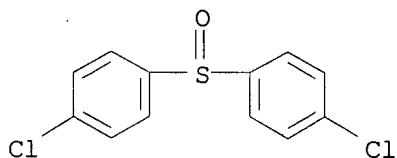
RN 945-51-7 CAPLUS

CN Benzene, 1,1'-sulfinylbis- (CA INDEX NAME)



RN 3085-42-5 CAPLUS

CN Benzene, 1,1'-sulfinylbis[4-chloro- (CA INDEX NAME)



L4 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:511681 CAPLUS

DOCUMENT NUMBER: 69:111681

ORIGINAL REFERENCE NO.: 69:20919a,20922a

TITLE: Infrared spectra of benzene- and pentadeuterobenzenesulfonyl compounds

AUTHOR(S): Uno, Toyozo; Machida, Katsunosuke; Hanai, Kazuhiko

CORPORATE SOURCE: Fac. Pharm. Sci., Kyoto Univ., Kyoto, Japan

SOURCE: Spectrochimica Acta, Part A: Molecular and

Biomolecular Spectroscopy (1968), 24(11), 1705-12

CODEN: SAMCAS; ISSN: 1386-1425

DOCUMENT TYPE: Journal

LANGUAGE: English

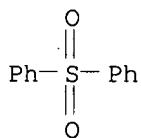
AB The ir spectra 4000-400 cm.⁻¹ of benzenesulfonamide, benzenesulfonanilide, benzenesulfonyl chloride, and diphenyl sulfone are reported together with the spectra of the corresponding pentadeuterobenzenesulfonyl compds. The isotopic shift of the characteristic bands near 1090 cm.⁻¹ of benzenesulfonyl compds. gives evidence of the assignment of this band to a mixed mode of the C-S stretching and a ring skeletal vibration. The benzene and deuterobenzene ring frequencies of these compds. are in close correspondence with those of chlorobenzene and chlorobenzene-d₅. The effects of the N-deuteration and the ring deuteration on the SO₂ group frequencies are discussed.

IT 127-63-9 21885-27-8

RL: PRP (Properties)
(spectrum (ir) of)

RN 127-63-9 CAPLUS

CN Benzene, 1,1'-sulfonylbis- (CA INDEX NAME)

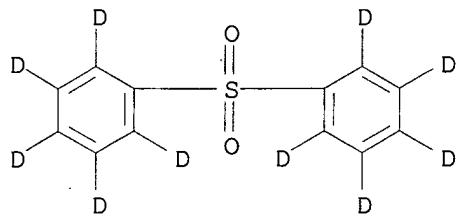


RN 21885-27-8 CAPLUS

CN (Phenyl sulfone)-d10 (8CI) (CA INDEX NAME)

10/521,531

07/16/2008



=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

100.53

279.10

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY

TOTAL
SESSION

CA SUBSCRIBER PRICE

-13.60

-13.60

STN INTERNATIONAL LOGOFF AT 07:51:07 ON 16 JUL 2008